

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-6 (Cancelled)

Claim 7 (Currently Amended) A diaphragm for use in a diaphragm-type flush valve, the flush valve includes a barrel section having a sealing end adapted to seal against said diaphragm, said diaphragm comprising:

a flexible diaphragm body having a first side and a second side and defining an outer periphery, wherein said second side of said diaphragm body is adapted to be positioned adjacent the barrel section;

a center passageway defined in said diaphragm body;

an annular protrusion defined on said second side of said diaphragm body adjacent said center passageway; and

a plurality of protruding ribs having a first end and a second end defined on said second side of said diaphragm body adjacent said protrusion, said first end of said rib extending radially outward away from said center passageway toward said second end of said rib, said first end of said rib and said protrusion define a recess area therebetween adapted to receive a sealing end of a barrel section,

wherein said second side of said diaphragm body is concave and said first side of said diaphragm body is convex when a pressure difference is applied across said diaphragm body, whereby a distance between said first end of said rib and said protrusion decreases thereby squeezing against the barrel section as the sealing end of the barrel section is received within the recess area of the diaphragm body, and wherein the recess area defines a sealing surface adapted to contact the sealing end when the barrel section is received within the recess area.

8. (Original) The diaphragm as claimed in claim 7, wherein said diaphragm body further comprises an inner ring attached to said outer periphery of said diaphragm body, an outer ring, and a plurality of longitudinally-extending bands connected to said inner ring and said outer ring.

9. (Original) The diaphragm as claimed in claim 7, wherein said diaphragm body further defines an opening adapted to receive a bypass orifice filter insert.

10. (Original) The diaphragm as claimed in claim 7, wherein said first end of said rib extends axially outward away from said second side of said diaphragm body and tapers off toward said second end of said rib, thereby defining an L-shaped profile.

11. (Original) The diaphragm as claimed in claim 7, wherein said diaphragm body is annular shaped and made of a flexible polymeric material.

Claims 12-21 (Cancelled)